

**ABSTRACT**

A method and system is provided for periodically and dynamically updating allocation pools of IP address which are reserved for wireless or wireline hosts. A system IP address server controls an entire address pool, contains predictive analysis logic, performs a predictive analysis, partitions the IP addresses into distinct address pools, and maintains “wireless guard bands” of IP addresses for wireless users to ensure that a higher priority address pool is never exhausted before an address pool which has a lower priority.

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